

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,529	12/30/2003	Yuegang Zhang	INTEL1180 (P16227)	8848
28213	7590 11/02/2005		EXAMINER	
DLA PIPER RUDNICK GRAY CARY US, LLP			SINES, BRIAN J	
4365 EXEC SUITE 1100	UTIVE DRIVE		ART UNIT	PAPER NUMBER
	O, CA 92121-2133		1743	
			DATE MAILED: 11/02/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/749,529	ZHANG ET AL.				
		Examiner	Art Unit				
		Brian J. Sines	1743				
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sheet	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR DHEVER IS LONGER, FROM THE MAILI nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUINTED THIS COMMUINTED THIS COMMUINTED THE COMMUINTED THE COMMUNICATION OF THE COMMUNICATION O	NICATION. a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	•			
Status							
1)	Responsive to communication(s) filed or	1 .					
2a)□	. ,	This action is non-final.					
3)	,—	application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)🖂	4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)[Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)⊠	Claim(s) <u>1-30</u> are subject to restriction a	nd/or election requirement.					
Applicati	on Papers						
9)[The specification is objected to by the Ex	aminer.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119		,				
	Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a)ر	a) All b) Some * c) None of:						
	 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
	3. Copies of the certified copies of the priority documents have been received in Application No						
	application from the International E	*		·······································			
* See the attached detailed Office action for a list of the certified copies not received.							
٠							
A44	Mal						
Attachmen 1) Notice	t(s) e of References Cited (PTO-892)	A) []	u Cummoni /DTO 440\				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9	4) 🔲 interview 48) Paper N	v Summary (PTO-413) o(s)/Mail Date				
3) 🔲 Infor	nation Disclosure Statement(s) (PTO-1449 or PTO/ r No(s)/Mail Date		f Informal Patent Application (PT 	⁻ O-152)			

Art Unit: 1743

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-24 & 27-30, drawn to a resonator apparatus and associated method for detecting using a resonator device, classified in class 422, subclass 68.1.
- II. Claim 25, drawn to a piezoelectric apparatus, classified in class 422, subclass 82.01.
- III. Claim 26, drawn to a paired bulk film acoustic resonator apparatus, classified in class 422, subclass 82.01.

The inventions are distinct, each from the other because of the following reasons:

Inventions I – III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation. For example, the apparatus of invention II, as recited in claim 25, specifically requires the incorporation of a pair of electrodes in order to operate. Whereas, the apparatus of invention I, as recited in claim 1, does not specifically require this feature in order to operate. The apparatus of invention II, as recited in claim 26, specifically requires the incorporation of a reference bulk film acoustic resonator. Whereas, the devices of inventions I and II, as indicated by each of their base claims, do not specifically require the incorporation of this feature in order to operate.

Because these inventions are distinct for the reasons given above and the search required for each of the groups is different, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/749,529

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Duan Sine